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DRAWINGS - TWENTY-ONE (21) SHEETS

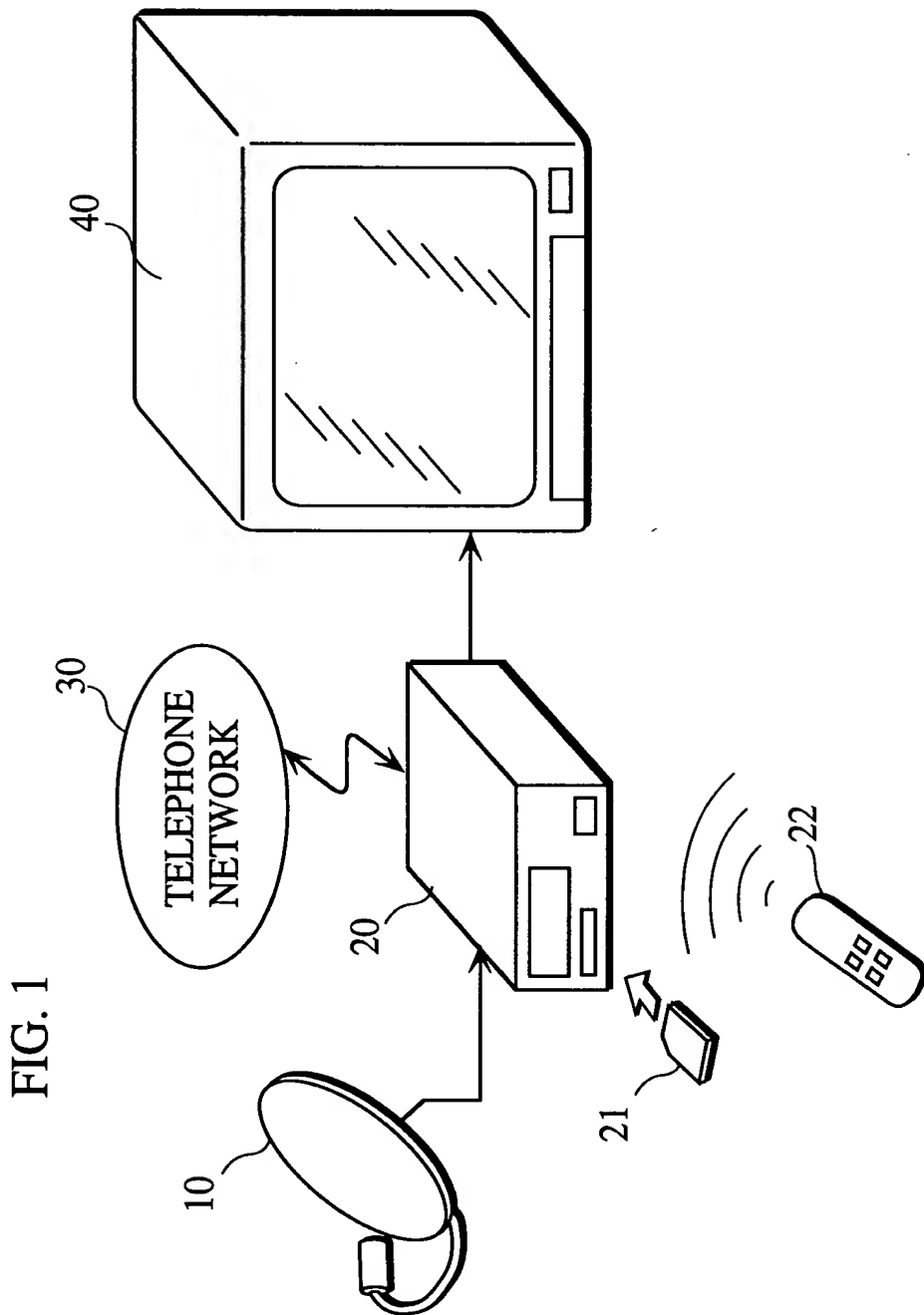
Applicant(s): Akihiro Tanaka et al.

Title: DATA BROADCASTING RECEIVING APPARATUS
AND METHOD

Attorney's
Docket No.: NAK1-BN78

"EXPRESS MAIL" MAILING
LABEL NO. EL852658832US

DATE OF DEPOSIT: February 5, 2001



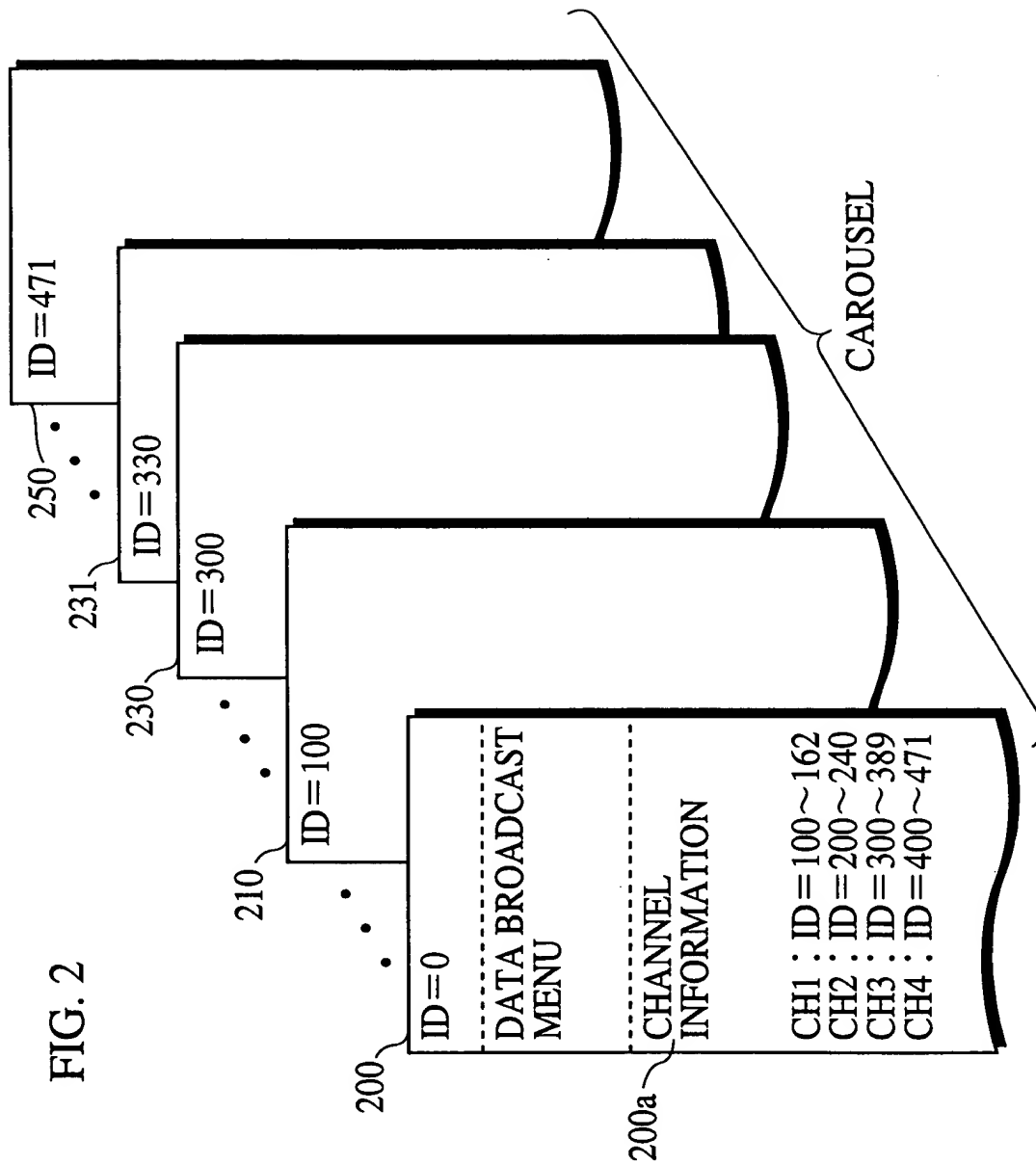
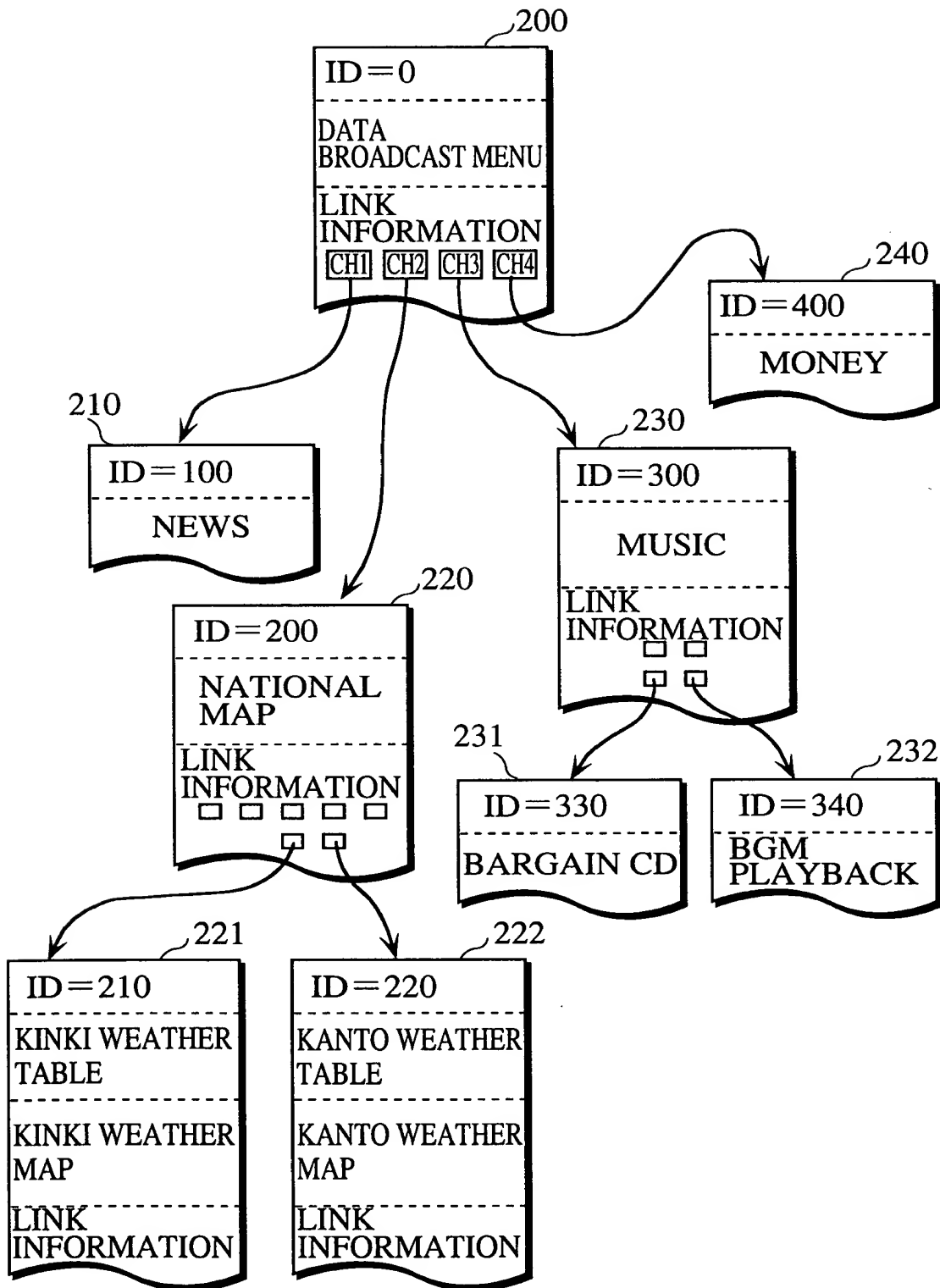
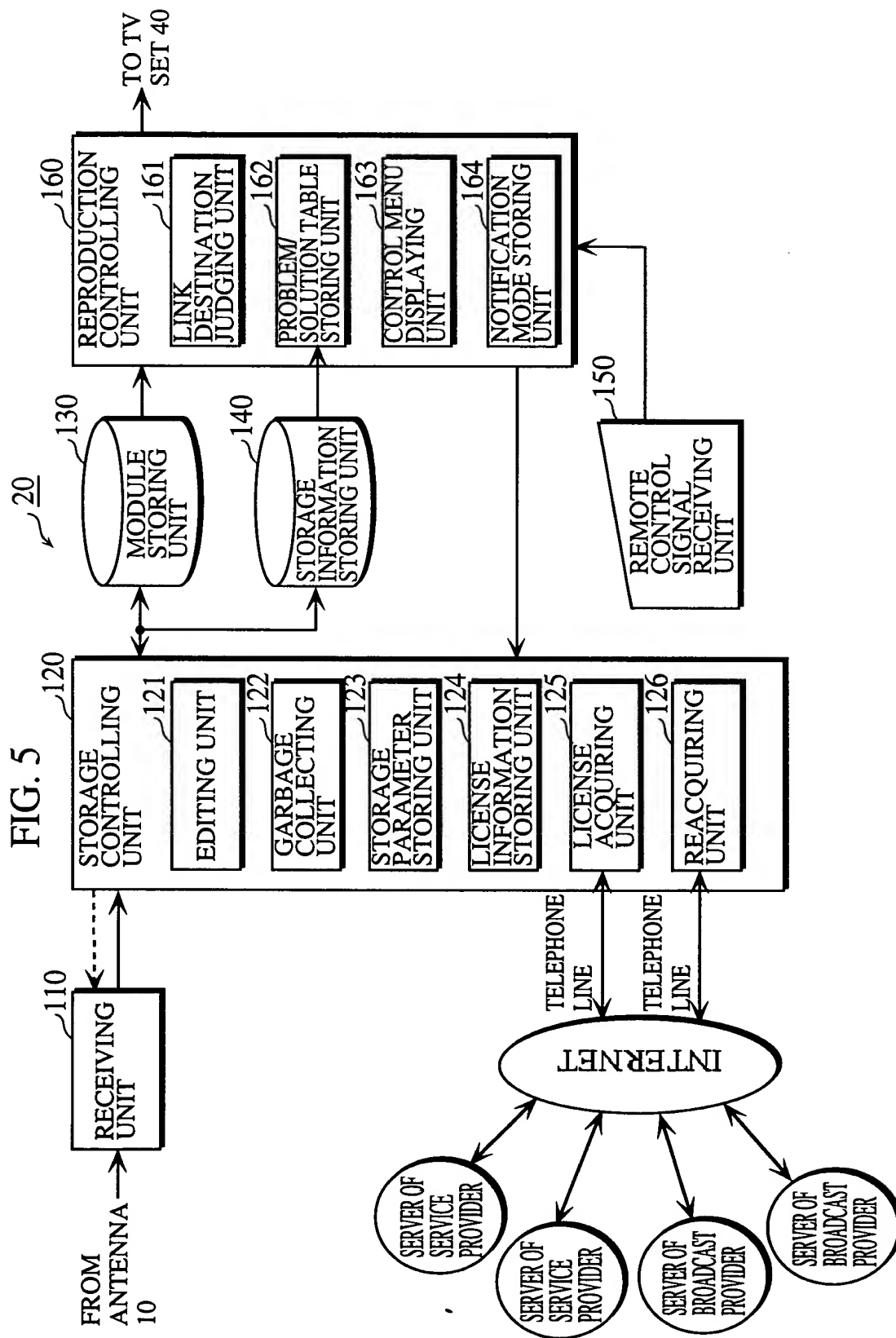


FIG. 3

ID	NAME	VERSION	TYPE	EXPIRY DATE
0	TOP_MN	13	JPEG	—
100	CH1_MN	8	JPEG	—
101	NEW_12	8	TXT	—
.				
.				
200	CH2_MN	7	JPEG	2000/01/14
.				
.				
210	KIN_WT	8	MIX	2000/01/14
220	KAN_WT	8	MIX	2000/01/14
.				
.				
300	CH3_MN	6	JPEG	—
330	CD_MN	15	JPEG	2000/01/10
340	BGM_MN	11	LIC	—
.				
.				

FIG. 4





STORAGE INFORMATION STORING UNIT 140 FIG. 6

ID	NAME	VERSION	TYPE	EXPIRY DATE	STORAGE STATE	PROBLEM ID	SOLUTION ID
0	TOP_MN	13	JPEG	—	STORED	—	—
100	CH1_MN	8	JPEG	—	NOT STORED	0	0
101	NEW_12	8	TXT	—	NOT STORED	0	0
.							
.							
200	CH2_MN	7	JPEG	2000/01/14	STORED	—	—
.							
.							
210	KIN_WT	8	MIX	2000/01/14	STORED	—	—
220	KAN_WT	8	MIX	2000/01/14	INCOMPLETE	2	1
.							
.							
300	CH3_MN	6	JPEG	—	STORED	—	—
330	CD_MN	15	JPEG	2000/01/10	NOT STORED	3	2
340	BGM_MN	11	LIC	—	NOT STORED	4	3
.							
.							

FIG. 7

PROBLEM/SOLUTION TABLE

PROBLEM ID	PROBLEM MESSAGE	REMARKS	SOLUTION ID	SOLUTION MESSAGE	REMARKS
0	COMPLETION OF BROADCAST	DETECTED BY STORAGE CONTROLLING UNIT 120	0	TRY STORAGE AGAIN	ACQUISITION BY REACQUIRING UNIT 126
1	HIGH BIT ERROR RATE	DETECTED BY RECEIVING UNIT 110			
2	LIMITED STORAGE SPACE	MODULE STORING UNIT 130	1	DELETE UNNECESSARY DATA	MESSAGE DISPLAY
3	EXPIRATION	DELETED BY GARBAGE COLLECTING UNIT 122	2	STORE LATER VERSION	ACQUISITION OF VERSION INFORMATION FROM STORAGE INFORMATION STORING UNIT 140, AND ACQUISITION OF LATER VERSION BY RECEIVING UNIT 110
4	NONPAYMENT	LICENSE INFORMATION	3	ACQUIRE LICENSE INFORMATION	ACQUISITION BY LICENSE ACQUIRING UNIT 125
5	DELETION BY USER EDIT	DETECTED BY EDITING UNIT 121	4	ACQUIRE AGAIN	ACQUISITION BY RECEIVING UNIT 110
.
.
.

U.S. Patent & Trademark Office

FIG. 8

CONTROL MENU

STORAGE TRIGGER

☒ AUTO

☐ PRESELECT

☐ / ☐ / ☐ (M/D/Y) : ☐

☐ / ☐ / ☐ (M/D/Y) : ☐

}

☐ MANUAL

STORAGE START

STORAGE END

STORAGE CH

NOTIFICATION MODE

☐ NORMAL DISPLAY

☒ PRE-DISPLAY VOICE

☐ NON-DISPLAY

STORED MODULE EDIT

LICENSE INFORMATION EDIT

TO DATA BROADCAST MENU

FIG. 9

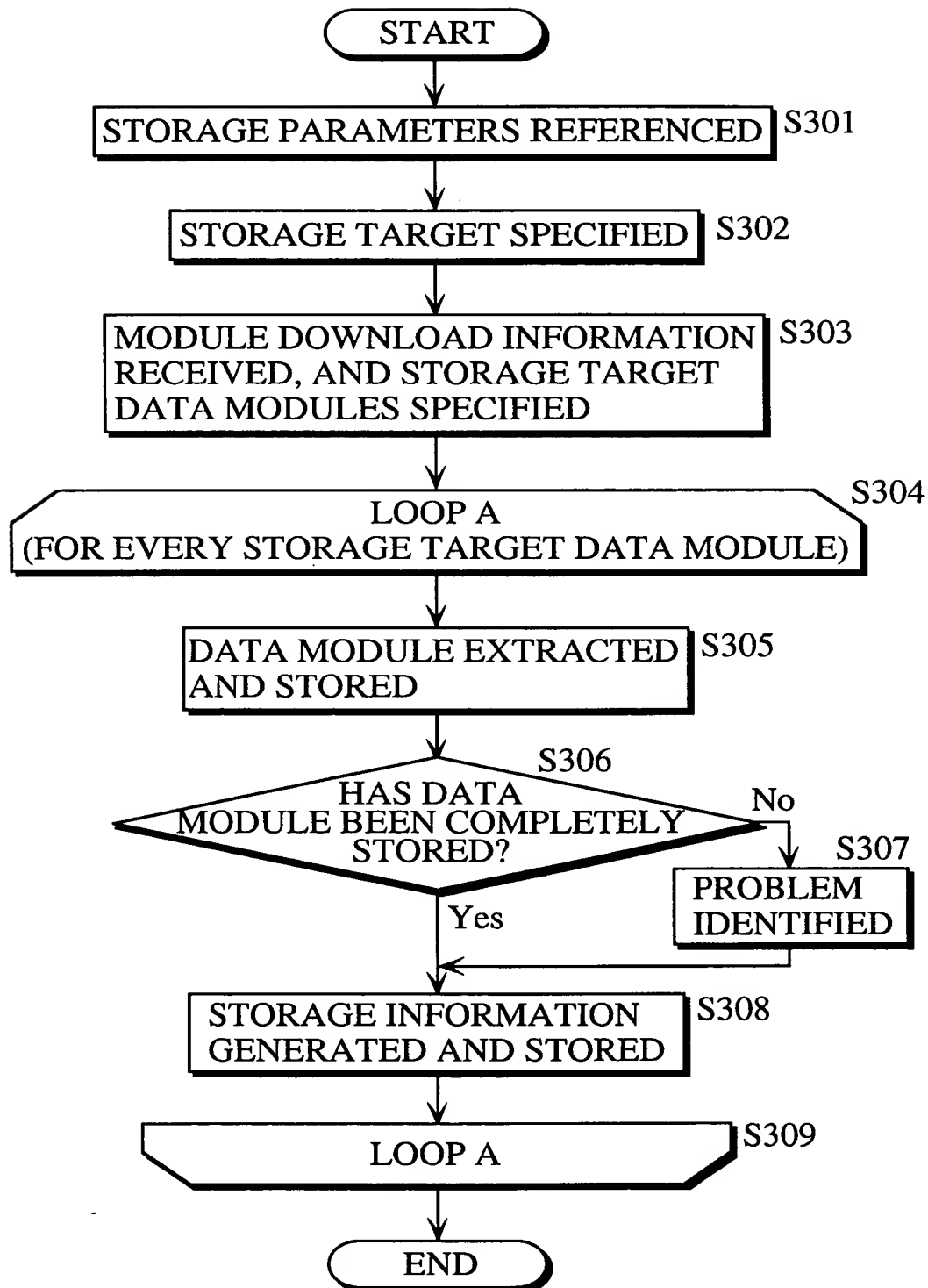


FIG. 10

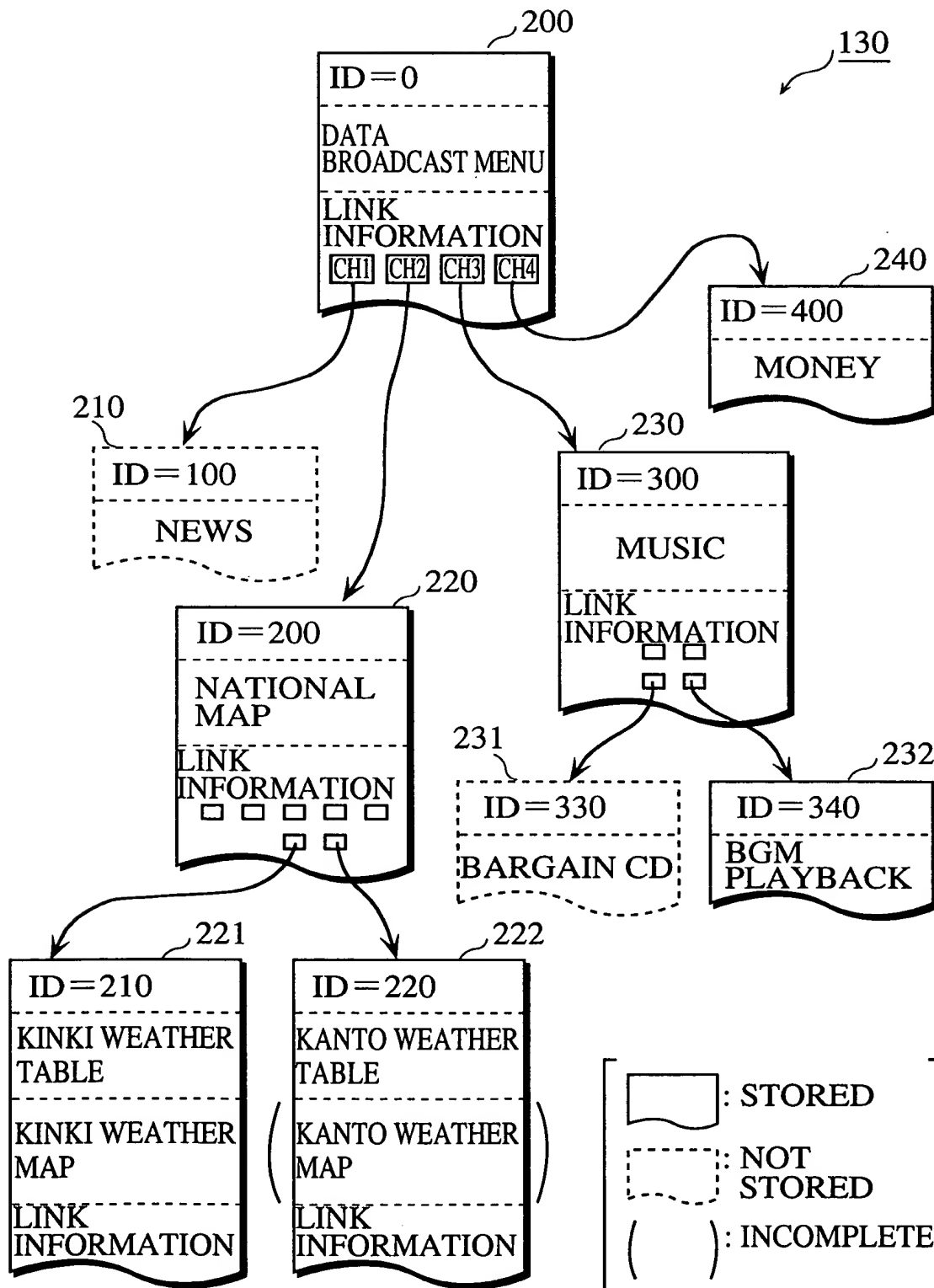
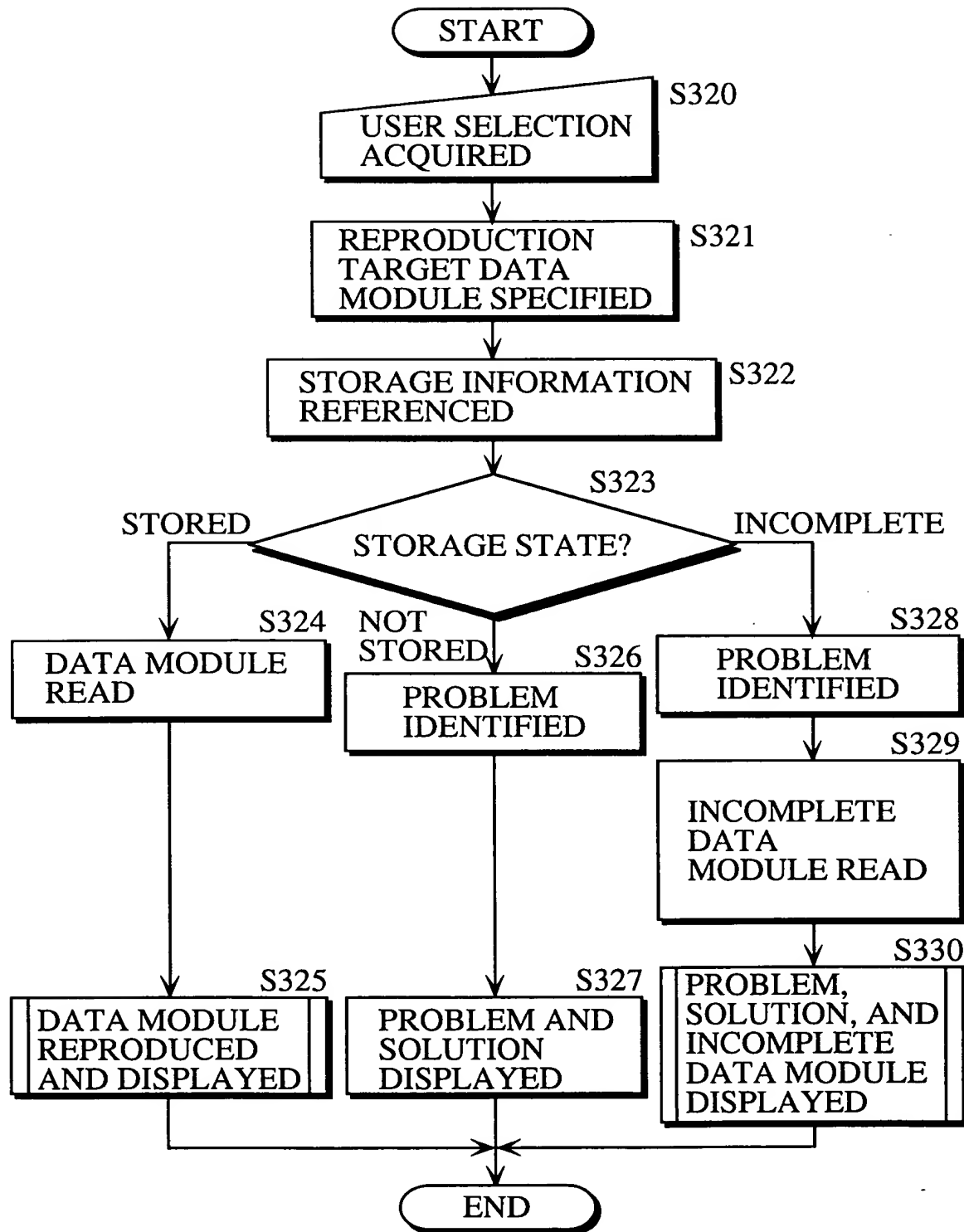


FIG. 11



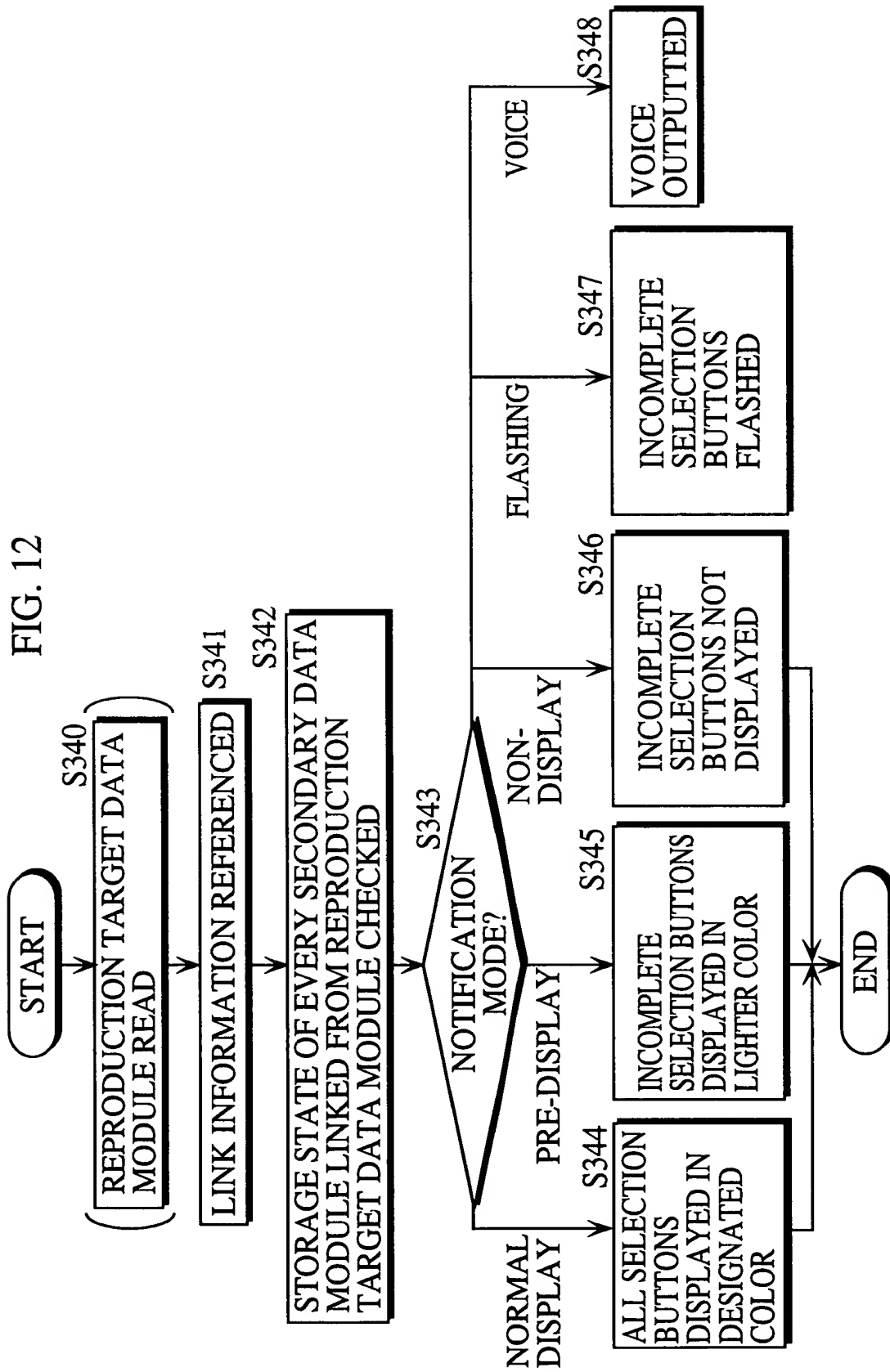


FIG. 13

ID=0

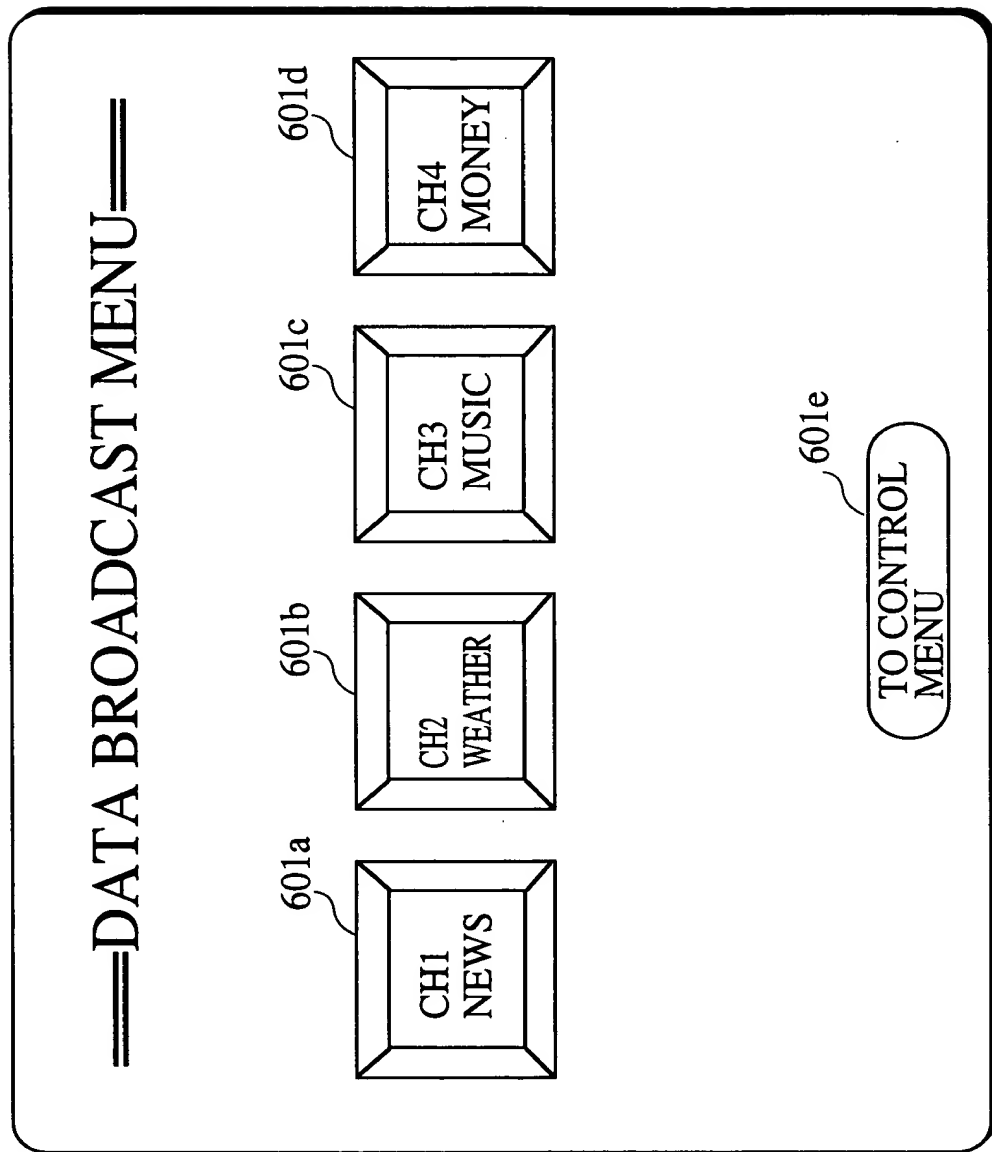


FIG. 14

ID=100

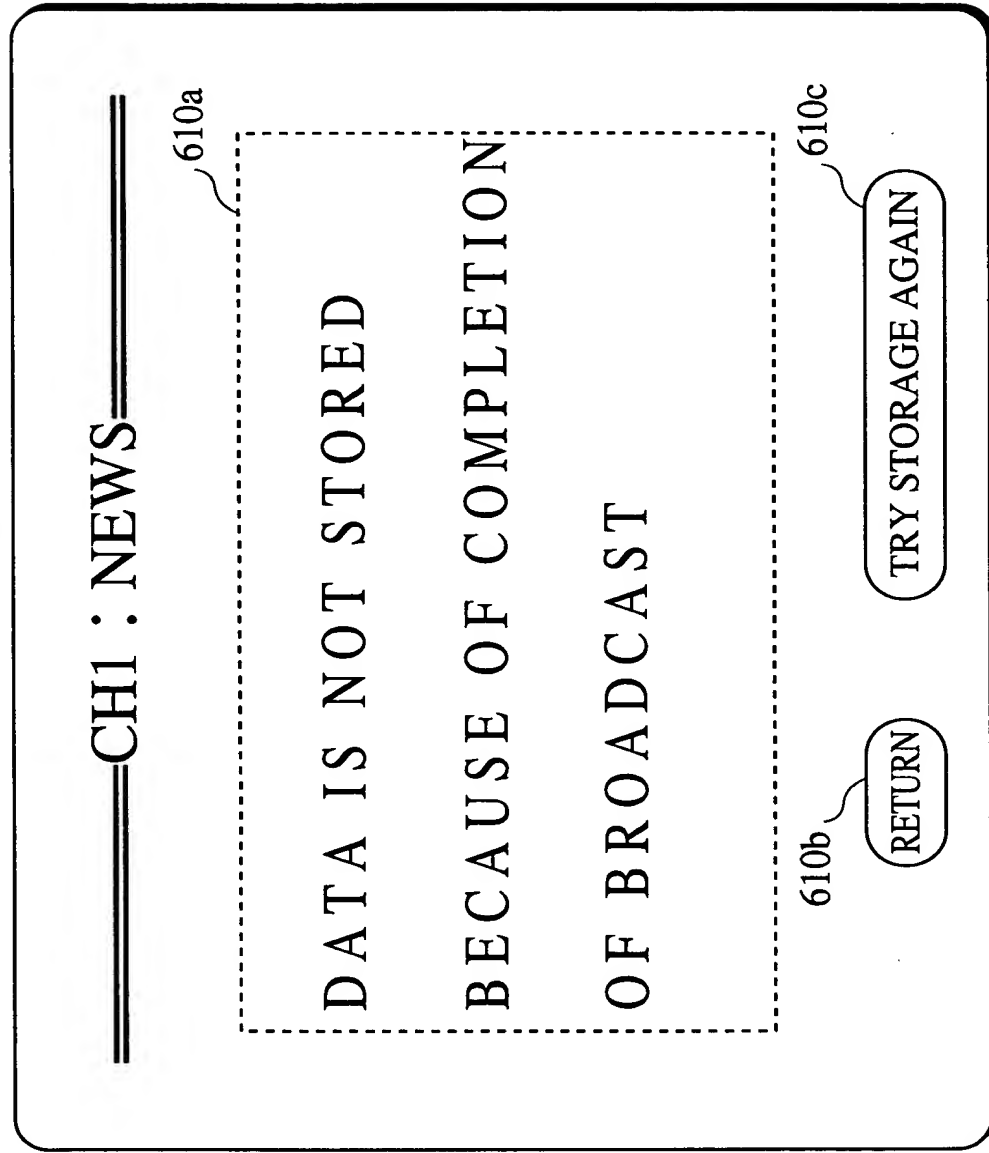


FIG. 15

ID=200

```
<A HREF="/220/KANTO.bml"
<IMG SRC="KANTO DARK.png">
link_ext="KANTO LIGHT.png"
</A>
```

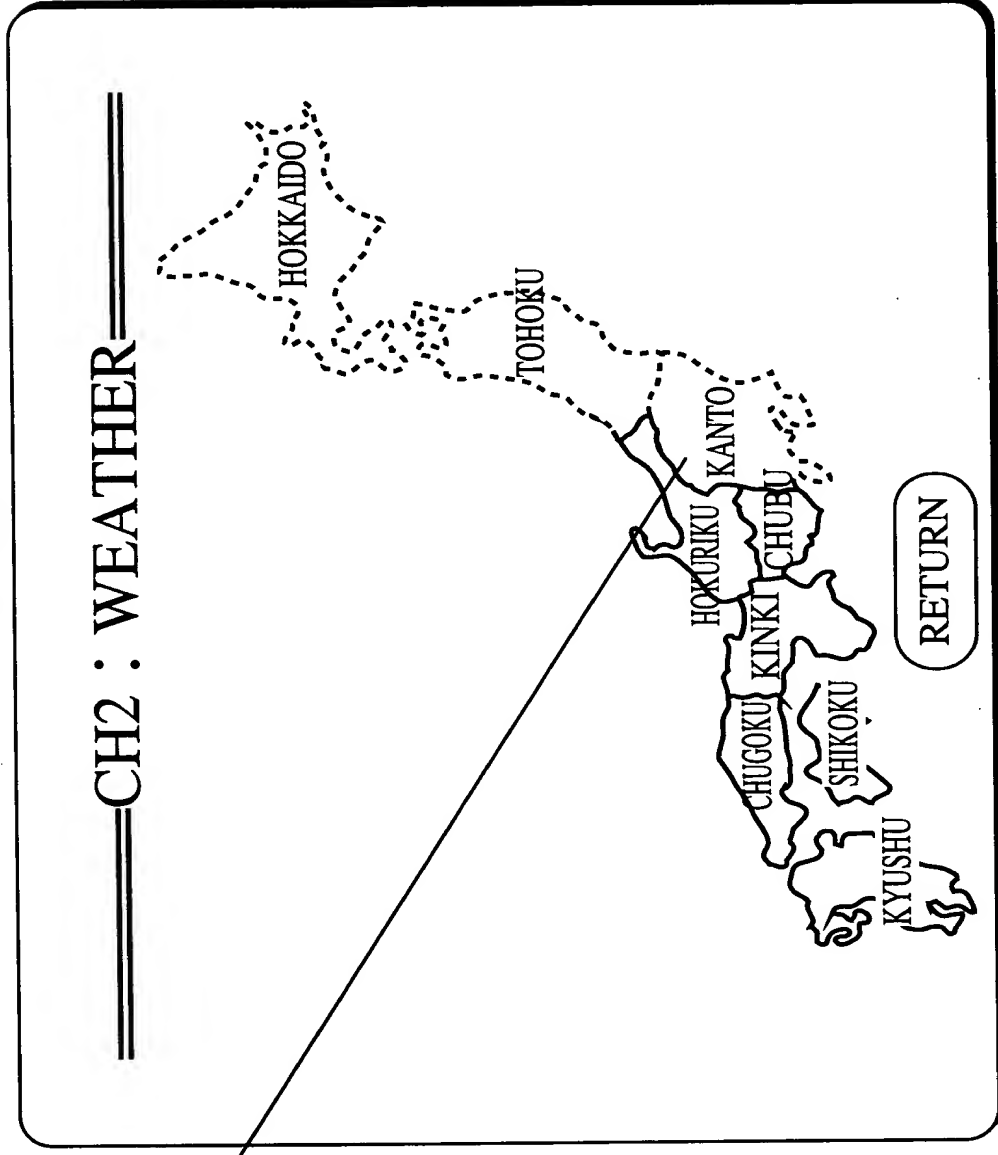
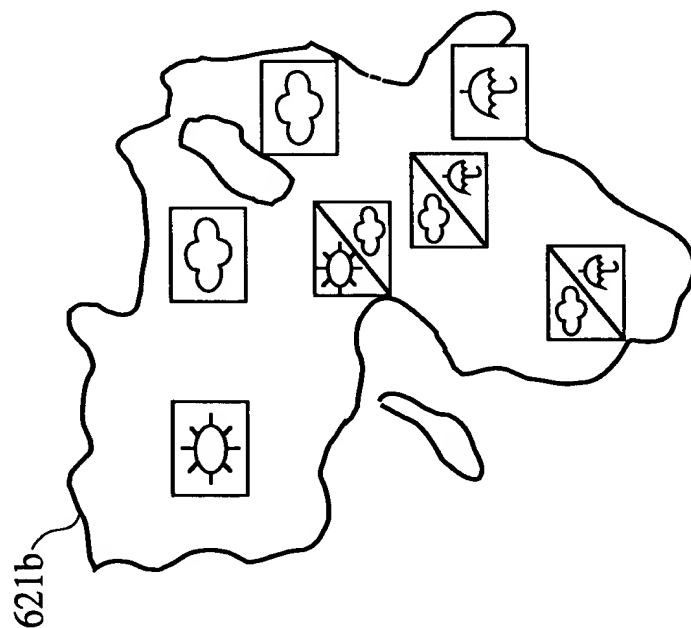


FIG. 16

ID=210



HYOGO	SUNNY
KYOTO	CLOUDY
OSAKA	SUNNY, LATER CLOUDY
SHIGA	CLOUDY
NARA	CLOUDY, LATER RAIN
WAKAYAMA:	CLOUDY, LATER RAIN
MIE	RAIN

RETURN

FIG. 17

ID=220

CH2 : WEATHER/KANTO

DATA IS NOT STORED
BECAUSE OF LIMITED
STORAGE SPACE

IBARAKI	SUNNY
TOCHIGI	SUNNY
GUNMA	CLOUDY
SAITAMA	CLOUDY
TOKYO	SUNNY, LATER CLOUDY
CHIBA	SUNNY, LATER CLOUDY
KANAGAWA	RAIN
YAMANASHI	RAIN

RETURN

DELETE UNNECESSARY
DATA

FIG. 18

ID=200

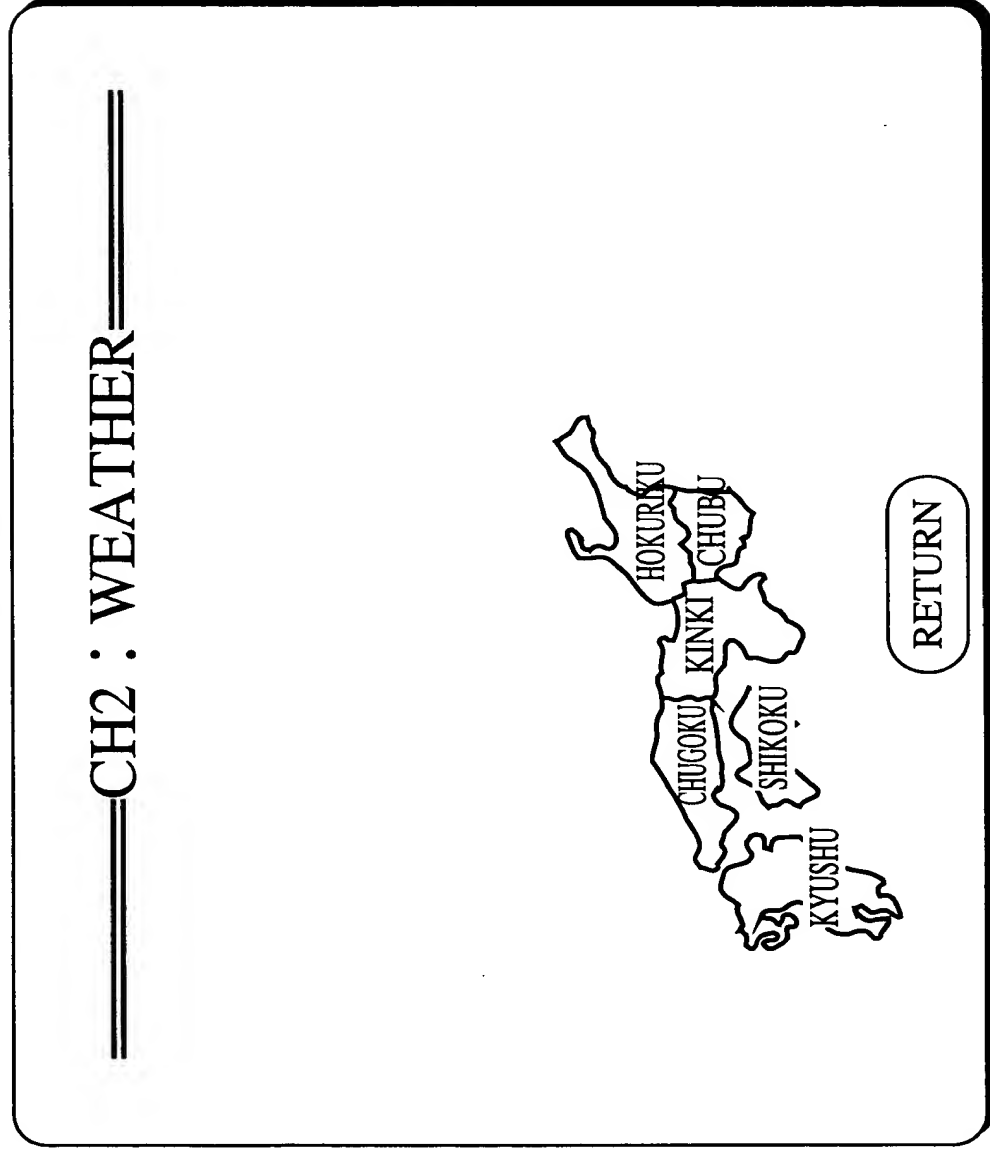


FIG. 19

ID=300

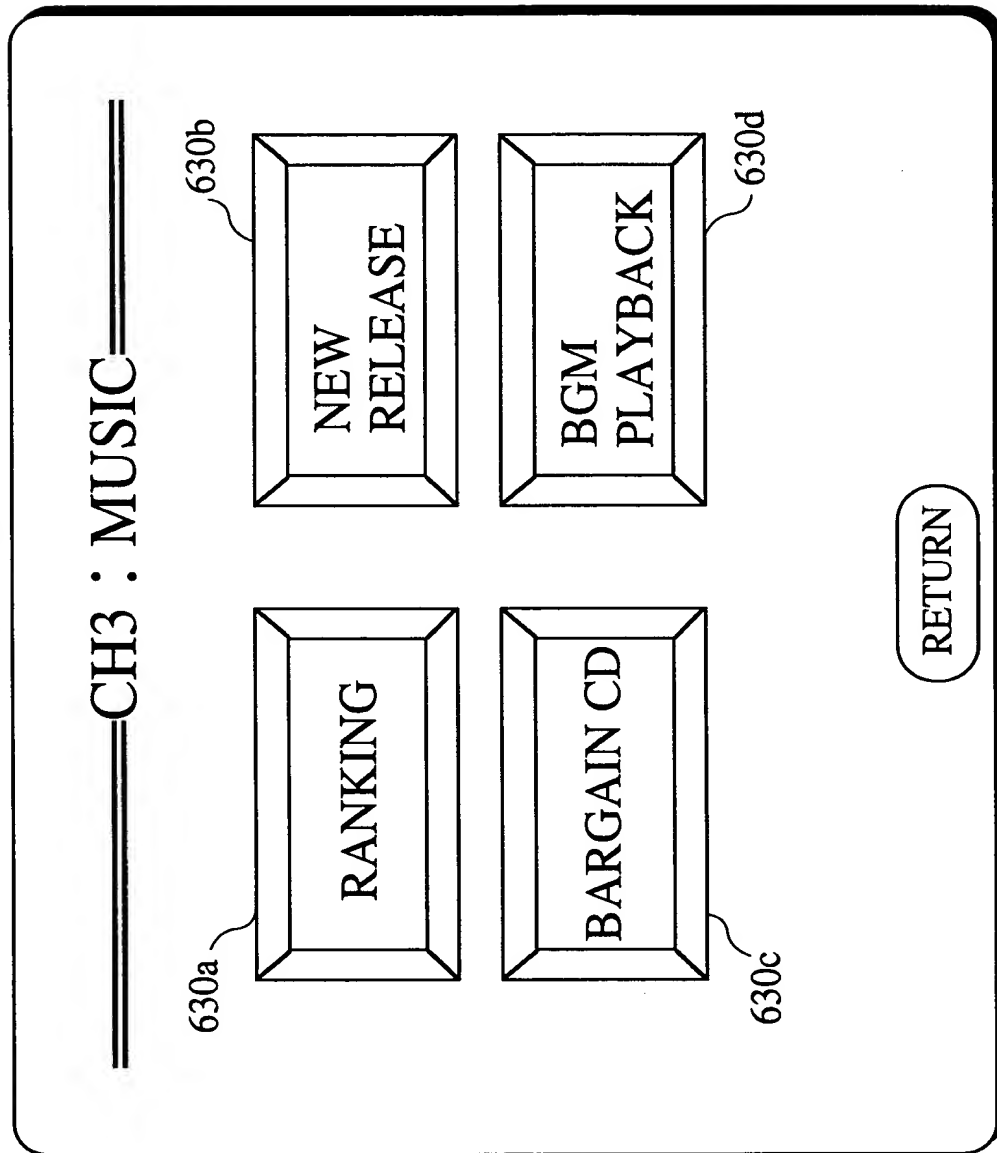


FIG. 20

ID=330

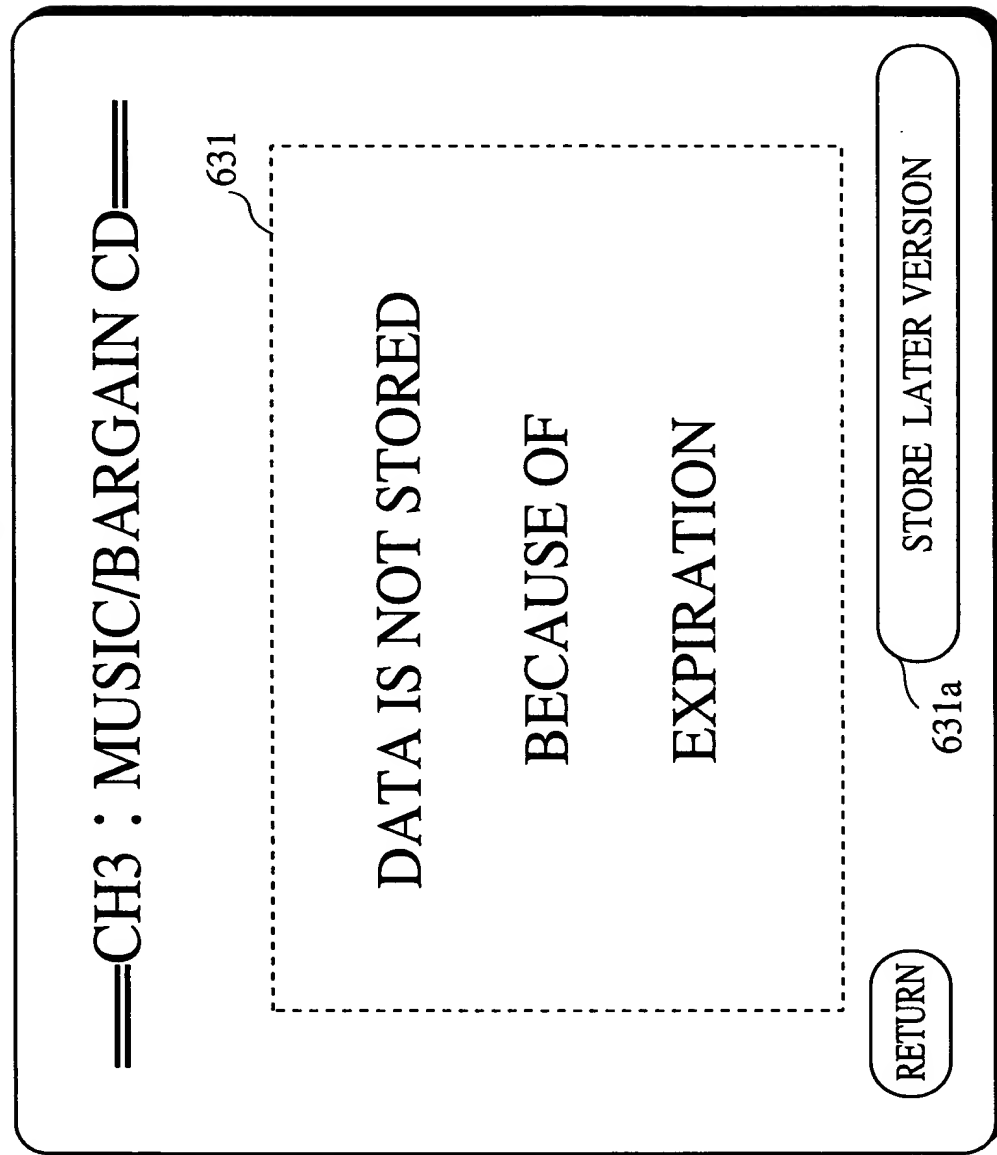


FIG. 21

ID=340

